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Surmounting the Polytechnic Institution there stands a colossal statue of Minerva, from which the hand and the point of her lance were broken off by the shock, and great rents were made in the bust, knees, head and the folds of its drapery. Two of the smaller turrets of the Treppen-haus portion of Rath Haus were said to be so seriously damaged as to involve their removal.

The barometer marked as follows :

Sunday, August 25, 10 P. M., 27.3. Monday, August 26, 6 A. M., 27.282. " 9 A. M., 27.21.

The first shock is reported to have lasted about ten seconds, those which were later were less violent as well as shorter in their durations. It is a noteworthy fact that the last two earthquakes with which the city of Aachen has been favored have likewise taken place at an early hour of the morning; that of October 22, 1878, at 9.45 A. M., and that of June 24, 1877, at 8.50 A. M.

The disturbance was by no means a local one, but extended as far as the Hague, being experienced with considerable violence at Cologne, Brauweiler, Horrem, Forst, Altenberg, Herzogenrath, Stolberg, Elberfeld, Osnabrück, Barmen, Graflenich, Eschweiler, Düsseldorf, Nivelsteen, Lennep, Mountjoie, Linn, Jüngersdorff, Haum, St. Töuis, Reviges, &c., &c.

On Tuesday, August 27, the weather altered, being cool and showery in the forenoon and clear and bright in the afternoon and evening.

Stated. Meeting, April 4, 1879.

Present, 15 members.

Vice-President, Mr. ELI K. PRICE, in the Chair.

A letter accepting the appointment to prepare an obituary notice of the late Henry J. Williams, was received from the Hon. M. Russell Thayer, dated Philadelphia, March 31, 1879.

A letter declining the appointment to prepare an obituary notice of the late Dr. McQuillen, was received from Dr. R. Kenderdine, dated Philadelphia, March 25, 1879.

On motion of Dr. R. E. Rogers, he was excused, and Dr. Agnew was appointed to prepare an obituary notice of the late Rev. Dr. Beadle.

A letter was received from Mr. Henry Bradshaw, Librarian PROC. AMER. PHILOS. SOC. XVIII. 103. 2B. PRINTED APRIL 25, 1879.

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of the University of Cambridge, England, respecting certain numbers of the Proceedings of the American Philosophical Society in that University Library.

On motion, the Librarian was directed to complete a set for the University as far as practicable, and place the Library of the University on the list of correspondents to receive the Proceedings.

A letter of acknowledgment for (102) was received from the Museum of Comparative Zoölogy, Cambridge, Mass.

A letter from M. Léon Bigot, dated 9 and 10, Rue de Manoir Petit Queval pris Rouen, was read, requesting to be made a corresponding member.

Donations to the Library were reported from the Asiatic Society of Japan; Geological Survey of Japan; Swedish Bureau of Statistics; Zool. Anzeiger; Royal Accademia dei Lencei; Geographical Society, Annales des Mines, and Reveu Politique, Paris; Society of Commercial Geography, Bordeaux; M. Ch. Martins, Montpelier; London Nature; Canadian Naturalist; Essex Institute: Boston Natural Historical Society; Harvard College Observatory; New Bedford Free Public Library; American Journal of Science and Arts, and Prof. Norton, New Haven; Academy of Natural Sciences, Numismatic and Antiquarian Society, Mr. S. W. Roberts, Prof. F. Prime, Mr. Jas. J. Barelay, and Robinson's Epitome, Philadelphia; Johns Hopkins University, Baltimore; U. S. Naval Observatory and Department of the Interior, Washington; St. Louis Public School Library; and the Ministerio de Fomento, Mexico.

A donation for the cabinet was received from the Numismatic and Antiquarian Society of Philadelphia, with a letter from its Corresponding Secretary, Mr. Henry Phillips, Jr.

The donation consisted of a bronze medal struck to commemorate the Twenty-first Anniversary of the Society, and the Twelfth Anniversary of the Presidency of the Hon. Eli K. Price. On the obverse, the effigy of Mr. Price; on the reverse, the seal of the Society as described in a pamphlet given to the Library. 1879.]

The death of Dr. George B. Wood, President of the Society since 1859, at his residence in Philadelphia, on the 30th ult., aged 82 years (on the 13th ult.), was announced by Mr. Fraley, with appropriate remarks, who then moved the following resolutions:

Resolved, That Dr. Alfred Stillé be requested to prepare and publicly deliver an eulogium on the life and character of Dr. George B. Wood, late President of the Society; and that a Committee of five members be appointed to make proper arrangements for the delivery of said eulogium.

Resolved, That as a testimonial of the respect of the Society for the memory of Dr. Wood, and of its regret for his death, the President's Chair be draped in mourning for six months.

Dr. Rogers, in seconding the motion, spoke of his own intimate relations with the deceased, and his two other illustrious contemporaries, Dr. Samuel Jackson, and Dr. Hugh L. Hodge, and eulogized the noble characters of this trio of great men.

Mr. Eli K. Price said that he remembered the two oceasions on which were delivered the public eulogium on Dr. Caspar Wistar, fourth President of the Society, by his successor, Chief Justice Tilghman, and the equally eloquent eulogium on the latter pronounced in a solemn public meeting of the Society by Horace Binney, and he considered the present occasion one that deserved the attention of the Society, in an equal degree.

The motion being carried, the Committee of five was appointed as follows: Mr. Fraley, Mr. E. K. Price, Dr. R. E. Rogers, Prof. P. E. Chase, and Dr. Jos. Leidy.

The Secretary read extracts from a private letter from Mr. Leo Lesquereux, dated Columbus, Ohio, March 22, announcing the important discovery of a specimen of *Cordaites* bearing its fruit, a *Cordaicarpus*. The discovery was made in examining the last box of specimens of coal plants from the Darlington slate bed, sent by Mr. Mansfield, of Cannelton, Beaver County, Western Pennsylvania.

The following is an extract from the letter:

"Mr. Mansfield continues his systematic explorations with wonderful

persistency, and most valuable results. He sends me at least every month a box of specimens, and in each lot I find some novelties.

"In the last lot just received I find what has been searched for since botanists began to study the coal plants, namely, one of those large nuis generally found scattered, never attached to any support, but this time in distinct connection to a branch of *cordaites*, and just to the species on which it might be supposed to be found on account of the numerous branches of male flowers found upon other fragments. See Plate.....

"I believe that this discovery is important enough to be worth a record published in the Proceedings of the American Philosophical Society.....

"It would be advisable to have the specimen figured for a plate. Both fragments would fill, in representation with some enlarged parts, an octavo plate....."

The description accompanying the letter, is entitled "On a branch of *Cordaites* bearing fruit. By Leo Lesquereux."

On motion of Mr. Lesley the Secretaries were authorized to order a plate illustration, 8° size, to be published with the paper.

Prof. Chase, pursuant to notice, read a communication on some new estimates of solar and planetary mass and distance, derived from Lockyer's "Basic lines," Peirce's meteoric hypothesis, and the energy of light.

Prof. Frazer, in illustrating the curious way in which some arbitrary geographical lines, like that which separates Maryland and Pennsylvania, prove on examination to be real division lines between districts of different geological character, described the different structural and mineralogical features of the copper veins near Liberty, in Maryland, and those near Monterey, in Pennsylvania. He stated that samples from the former gave only 4 or 5 per cent. of copper, and samples from the latter as much as 28 per cent. He described minutely his own method of sampling these ores for the purpose of obtaining reliable averages.

To illustrate the deceptive aspect of some geological expositives, he described the Chicques rock near Columbia, which had been described as an anticlinal outerop, whereas it is monoclinal to the southward, against a fault; and added, that he recently proved the fact further by a careful study of the south dips in the bluff on the opposite or western

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side of the Susquehanna river, against which the stream was undercut for several miles.

In reference to the two uncertain forms discovered in the strata near the southern line of Lancaster, which Mr. Hall suspects to be fossil organisms, he said that it was desirable to have published drawings of them, costing about \$35.

On motion the Scretaries were authorized to have such drawings made.

Pending nominations 872, 874, 875, 876, 877; and new nominations 878, 879, 880, 881 and 882, were read.

A letter was received from the President of the Historical Society of Pennsylvania, Mr. John William Wallace, dated 830 Spruce street, April 4, 1879, stating that Mr. Wm. Brooke Rawle and Mr. Charles Riché Hildeburn had been appointed to publish a continuation of the Penn-Logan Correspondence after 1711, and requesting permission to use the MSS. in the Library of the American Philosophical Society for that purpose.

On motion the request was granted under proper restrictions by the Librarian with a view to safety of the MSS.

Mr. Fraley announced that Dr. Wood had devised to the American Philosophical Society \$20,000, for the purpose of erceting a fire-proof building, or for rendering the present hall fire-proof; and read a memorial to the Legislature, with the following resolution, which was adopted:

Resolved, That this Society will respectfully petition the Legislature for the release of the collateral tax on the charitable legacies and devises in the will of the late Dr. George B. Wood; and that the officers and members of this Society be requested to sign such petition, and to affix the corporate seal thereto.

After explanations from Dr. Rogers, the Chairman of the Committee on the Wootten process, on motion, that Committee was directed to make a final report on the subject at the next stated meeting of the Society.

And the meeting was adjourned.